

**ASCE – INDOT STRUCTURAL COMMITTEE  
MEETING NO. 72 MINUTES**

**March 17, 2015 9:00 am, INDOT Room N642**

The meeting was called to order at 9:030 a.m. by Mike McCool. Those in attendance were:

Anne Rearick	INDOT, Bridge Division
Donald Shaw	INDOT, Bridge Division
Stephanie Wagner	INDOT, Bridge Division
Elizabeth Phillips	INDOT, Bridge Division
Naveed Burki	INDOT, Bridge Division
Mike Wenning	GAI Consultants, Inc.
Mike McCool	Beam Longest & Neff, LLC.
Seth Schickel	HNTB Corp.
Kurt Heidenreich	Engineering Resources, Inc.
Mike Halterman	USI Consultants, Inc.
Pete White	CHA, Inc.
Michael Eichenauer	Butler, Fairman and Seufert, Inc.
Ben Borcharding	American Structurepoint, Inc.
Jason Yeager	Weddle Brothers Highway Group
Matt Shergalis	National Steel Bridge Alliance

In addition to the attendees, these minutes will be sent to the following:

Greg Pankow	INDOT, Construction Management
Burleigh Law	HNTB Corp.
Tony Zander	INDOT, Highway Management Division
Jim Reilman	INDOT, Construction Management
Mahmoud Hailat	INDOT, Bridge Division
Keith Hoernschmeyer	Federal Highway Administration
Jeremy Hunter	INDOT, Bridge Division
Troy Jessup	CHA, Inc.

1. Review and approve Meeting 71 minutes.
  - Meeting 71 minutes were approved.
2. Asymmetrical Barriers (White, Wenning, Law, Jessup)
  - Mr. White working on calculations.
  - FHWA pooled fund website has some useful information.
3. Continuity of Prestress Concrete Beams (Heidenreich, McCool, Hailat, Hunter, Phillips)
  - Move to parking lot
  - Look for TRB research opportunities
4. NEXT Beams (McCool, Heidenreich, Borcharding, Jessop)
  - Looking for opportunities to try one.
5. Expansion Joints Options (Hunter, White, Wagner, Eichenauer)
  - NCHRP study due out July 2016 on joint rehabilitation

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- XJS joints lasting about 2 years
  - Compressed foam (M-Seal) has good reports from other states
  - All joints last 5-10 years maximum
  - INDOT experimenting with replacing top 3" of terminal joint asphalt with polymer modified asphalt.
  - McCool and White to develop unique special provision for compressed foam seal.
6. Deck Pan Details (McCool, Heidenreich, Borchering)
- Trimming angle doesn't work structurally.
  - Designers need to repeat IDM detail in their plans.
  - Camber is not known until concrete beams are set complicating SIP connection details.
  - Limit angle height to no more than the deck pan depth.
7. General Notes Sheet (McCool, Schickel, Phillips, Wenning)
- Tabled
8. Hydro-demolition (Wagner, Wenning, Heidenreich, Yeager)
- No current option for treating water on site.
9. Life-Cycle Cost (Hunter)
- Develop parameters for use within Indiana.
  - Tabled
10. Concrete Patching (Wagner, Nelson, Eichenauer, Hailat, Schickel)
- Table
11. Link Slab Design (Hunter, McCool, Wenning, Schickel)
- Coordination with NYDOT
12. Approach Slabs (Hailat, Law, Heidenreich)
- A poll of DOT's was taken. Responses: 8 uniform length / 5 trapezoidal.
  - Illinois DOT uses uniform length. Still has cracks but recently increased reinforcement.
13. High Early Strength Concrete (Hailat, Nelson, White)
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14. Research Needs and Innovative Ideas (Rearick)

- Ms. Rearick asked for ideas for future research
- SBrite Center activities and training
- Epoxy injection
- NDT for bridges
- Load rating methods for bridges designed under previous codes.
- Carbon fiber wrap for strengthening
- Strength loss due to pack rust.

15. Fiber Wrap (Jessop, Eichenauer, Wenning)

- Tabled

16. New Business

- Pile Design for 3-sided Structures (Hunter, Schickel, White, Borcharding)  
Determine design assumptions for distribution of loads.
- Anchoring or Embedment of Prestress Beam Stirrups (Law, Hunter, Jessup, Wenning, Hailat) Investigate bars extending into the fillet, Does roughened surface provide enough friction by design.
- Unique Special Provisions - On web. Committee members to review and provide comments on notes to designer. Cite web address.
- Aspire Magazine interested in an article on the committee and the joint work with INDOT and the private engineering community.
- 600k Collision Load (Hunter, White) Investigate load application.
- Microsilica Overlay USP as option to LMC. Experience of the committee is that they seem equal.
- Michael Wenning was selected as the committee vice-chair for a 3 year term.

17. Recurring Business

Software Practice Pointer Updates (McCool, Phillips)  
Standards Committee Updates (Phillips)  
Bridge Design Conference (McCool)  
Overlay Types (Hunter, White)

Parking Lot

Concrete mix designs  
Long term deflections in prestressed beams  
WWF in prestressed beams  
Special provision for high strength concrete  
Mild reinforcement in prestressed beams (particularly 401 bars)  
Post Tensioning Specs  
Terminal Joint Details  
Alternate Structure Types

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The next meeting for the INDOT Structural Committee is scheduled for 9:00 a.m. on October 27, 2016, in room N642. Mike McCool will distribute an agenda prior to the meeting. This meeting was adjourned at 11:30 a.m.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'Michael Wenning', with a stylized flourish at the end.

Michael Wenning, P.E.  
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